

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **08226918 A**

(43) Date of publication of application: **03 . 09 . 96**

(51) Int. Cl.

G01N 33/53
C12N 15/02
C12P 21/08
G01N 33/573
G01N 33/577
/(C12P 21/08 , C12R 1:91)

(21) Application number: **07053794**

(22) Date of filing: **20 . 02 . 95**

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**(54) METHOD FOR FRACTIONAL DETERMINATION
OF FREE ACTIVATED MATRIX
METALLOPROTEASE**

(57) Abstract:

PURPOSE: To provide a simple and quick fractional determination method of activated matrix metalloproteases(MMPs) directly related to decomposition of matrix components among the MMPs existing in a tissue or humor to enable diagnosis or monitor of pathology such as a disease aggravated by activation of the MMPs, arthrosis, infiltration or metastasis of cancer and pulmonary fibrosis.

CONSTITUTION: For highly sensitive, highly accurate

and quick fractional determination of activated MMPs with simple operation and reagent, a combination of monoclonal antibodies specifically bonding to each MMP and a tissue inhibitor of metalloprotease(TIMPs) or a composite comprising TIMPs and monoclonal antibodies specifically bonding to each TIMP is used. In particular, one of solid phase carrier bonding substance and a label applying substance is a monoclonal antibody specifically bonding to the matrix metalloprotease, while the other is an inhibitor of the matrix metalloprotease, wherein they are preferably used respectively in combination.

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